

**MARINE CORPS SYSTEMS COMMAND**

**EQUIPPING THE WARFIGHTER TO WIN**



# **TRANSPORTABILITY**



# MARCORSYSCOM

**COMMANDER**

**EXECUTIVE DIRECTOR \***

## **PEO Land Systems**

PM Expeditionary Fighting Vehicle  
 PM JPMO, Lightweight 155,  
 Picatinny, NJ  
 PM Light Armored Vehicle MPC  
 PM LVSR  
 PM JLTV  
 PM MTVR  
 PM G/ATOR  
 PM CAC2S

## **Chief of Staff**

CIO  
 Facilities &  
 Services  
 Operations Cell  
 Reserve Affairs  
 Security

## **Special Staff**

International Programs  
 Counter-Improvised Explosive  
 Devices  
 Corporate Communications  
 Counsel  
 OSBP  
 Strategic Change Management  
 Center

## **Sergeant Major**

Product Group 09 Director,  
 Operational Forces Systems

Product Group 10 Director,  
 Information Systems &  
 Infrastructure

Product Group 11 Director,  
 MAGTF C2, Weapons &  
 Sensors Development & Integration

Product Group 12 Director,  
 Communications, Intelligence,  
 & Networking Systems

Product Group 13 Director,  
 Infantry Weapons Systems

Product Group 14 Director,  
 Armor & Fire Support Systems

Product Group 15 Director,  
 Ground Transportation  
 & Engineer Systems

Product Group 16 Director,  
 Combat Equipment and  
 Support Systems

Program Manager,  
 Ammunition

Program Manager,  
 Global Combat Support  
 System-Marine Corps

Program Manager,  
 Light Armored Vehicle  
 Warren, MI

Program Manager,  
 Mine Resistant  
 Ambush Protected

Program Manager,  
 Robotic Systems  
 Huntsville, AL

Program Manager,  
 Training Systems  
 Orlando, FL

Deputy JPEO,  
 Chemical & Biological  
 Defense  
 Arlington, VA

Assistant Commander  
 Contracts ^

Contracts  
 Competency Domain/  
 Competency Leaders

Assistant Commander  
 Life Cycle Logistics ^

Life Cycle Logistics  
 Competency Domain/  
 Competency Leaders

Assistant Commander  
 Programs ^

Program Mgmt  
 Competency Domain/  
 Competency Leaders

Deputy Commander  
 Resource Management \*^

Deputy Commander  
 SIAT \*^

Resource Mgmt  
 Competency Domain/  
 Competency Leaders

Director,  
 Financial  
 Management

Director,  
 Workforce  
 Management and  
 Development

Research & Systems  
 Engineering  
 Competency Domain/  
 Competency Leaders

Director,  
 MAGTF and Joint  
 Integration

Director,  
 Information  
 Assurance/Joint  
 Certifications

Director,  
 Program Engineering  
 and Technology

Commanding Officer  
 MCTSSA  
 Camp Pendleton, CA

\* = SES Position

^ = Competency  
 Director

Updated 3Apr08

# Mission

- **DEPUTY COMMANDER, SYSTEMS ENGINEERING INTEROPERABILITY, ARCHITECTURE, & TECHNOLOGY (DC SIAT)** conducts enterprise level systems engineering across product lines and product lifecycles to ensure MCSC provides end to end interoperable, certified warfighting capabilities.

# TRANSPORTABILITY SECTION

- TRANSPORTABILITY OFFICER (0430)
  - CWO3 MELISSA TAFOYA
- TRANSPORTABILITY SPECIALIST (0481)
  - SGT MANUEL MORIN
- L3 CONTRACT SUPPORT
  - JAMES CONTOS

# CURRENT PROJECTS

- **ACE/GCE STABILITY STUDY**
  - EQUIPMENT DATA SUPPORT
- **NAVAL INTEGRATION**  
PROCESS/REQUIREMENTS (W/I  
MARCORSYSCOM)
  - INFLUENCE EQUIPMENT DESIGN CHANGES  
EARLY IN THE ACQUISITION PROCESS
- **LCAC CERTIFICATION**
  - UPDATE SEAOPS CARGO LOADING MANUAL

# CERTIFICATION ORGANIZATIONS

- **SURFACE DEPLOYMENT AND DISTRIBUTION COMMAND-TRANSPORTATION ENGINEERING AGENCY (SDDC-TEA)**
  - RAIL
  - COMMERCIAL SHIP
  - HIGHWAY
- **AIR TRANSPORTABILITY TEST LOADING AGENCY (ATTLA)**
  - INTERNAL AMC AIRCRAFT
  - LVAD
- **NATICK**
  - EXTERNAL LIFT (HELICOPTER SLING LOAD)
  - SHELTER CERTIFICATIONS
- **NAVSEA**
  - LCAC
  - NAVAL INTEGRATION - AMPHIB/MPF
- **NAVAIR**
  - INTERNAL R/W, FIXED WING

# WHAT REQUIRES CERTIFICATION?

- **TRANSPORTABLE PROBLEM ITEMS**

- The item is wheeled or tracked, and is to be towed, hauled, or self-propelled on or off highway.
- The item increases the physical characteristics of the designated transport medium.
- The item requires special handling or specialized loading procedures.
- The item has inadequate ramp clearance for ramp inclines of 15 degrees.
- Exceeds any of the following conditions:
  - Length - 20 feet (6096 mm, 240 in).
  - Width - 8 feet (2438 mm, 96 in).
  - Height - 8 feet (2438 mm, 96 in).
  - Weight - 10,000 pounds (4,536 kg).
  - Weight per linear foot - 1,600 pounds/foot (2381 kg/m).
  - Floor contact pressure - 50 psi (344.7 kPa).

# CURRENT PROGRAMS

# Bridge Erection Boat (BEB)



## PROGRAM STATUS

- AAO: current 66 /pending buildup to 108
- Unit Cost: \$248,226.00
- Planned/Fielded: I MEF-6/6 II MEF-21/21 III MEF-4/4 MARFORRES-19/19 MPF- 13/12 SE-3/3
- FY07/FY08 Procuring 43 boats with trailers
- Fielding Complete: 03/09

## DESCRIPTION

- The Bridge Erection Boat (BEB) is used to support bridging and amphibious operations. It is a 27-foot aluminum hulled open boat capable of carrying 15 Marines or 4,400 pounds of cargo.
- The BEB is primarily used to place and secure bridging assets, such as the Improved Ribbon Bridge (IRB) against currents.

## Ribbon

- Bridge (IRB) against currents.
- MILESTONE SCHEDULE**
- Prime Contractor: ACB, Bellingham, WA

Fiscal Year	2007				2008				2009				2010			
Quarter	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Award								◇ (202K)								
FRP Decision																
Production	◆	██████████				(202K)	█		█	██████████						
IOC	◆				(202K)		◆									
FOC					◆							◇ (202K)				

Anticipated contract award 2<sup>nd</sup> Qtr FY08, 5 month lead time, 5 per month, estimated delivery through 2<sup>nd</sup> Qtr FY09



# Improved Ribbon Bridge (IRB)



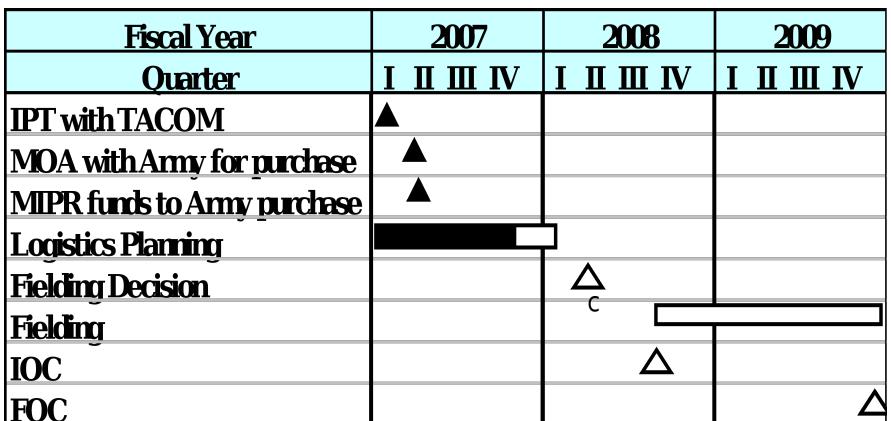
## DESCRIPTION

- The Improved Ribbon Bridge (IRB) will provide the Marine Corps with the capabilities required for Marine Expeditionary Forces to overcome wet gap obstacles too wide to be breached and too deep to be forded by combat vehicles.
- The IRB is a floating wet gap bridge system capable of carrying a MLC 70/96 ton vehicle in stream currents of 10 feet per second (5.9 miles per hour). The IRB is capable of breaking down into two MLC 70/96 rafting sets. Rafting set (B-1625) consists of 5 interior and 2 ramp bays, Bridge set (B1055) consists of 12 interior and 5 ramp bays.
- Prime Contractor: General Dynamics Santa Barbara System (GDSBS) Kaiserslautern Germany

## PROGRAM STATUS

- AAO: 15
- Unit Cost: \$4.717M
- Planned/Fielded: I MEF-3/0 II MEF-3/0 III MEF-3/0 MARFORRES-6/0
- FY07/08 Procuring 15 IRB
- Fielding Complete: 4<sup>th</sup> Qtr FY09

## MILESTONE SCHEDULE





# Medium Girder Bridge (MGB)



## PROGRAM STATUS

- LOGCOM Maintenance Center remanufacturing USMC inventory of MGBs, erection sets, and link sets
  - Projected FY08 funding to purchase new: 6 MGB, 6 erection sets and 3 Link sets
  - AAO: 32 Medium Girder Bridge (MGB)  
17 Bridge Erection Sets  
17 Link Reinforcement Sets
- Sep 3, 2016

## DESCRIPTION

- Lightweight, bridging system rapidly erected by hand in various configurations and lengths
- Bridges up to MLC 70 (tracked) or 100 (wheeled) can be constructed and dismantled rapidly by trained Marine Corps Engineer units to keep pace with operations.
- MGB is a deck-type, two-girder bridge system providing a 4-meter wide roadway to span wet or dry gaps.
- The Marine Corps inventory consists of 32 MGBs, 17 MGB Bridge Erection Sets, and 17 MGB Link Reinforcement Sets.
- Prime Contractor: Williams Fairey England Ltd.

## MILESTONE SCHEDULE

Quarter	I	II	III	IV	I	II	III	IV	I	II	III	IV
Move Funding to MCA	▲		▲		▲							
Production												



# Containerized Batch laundry Unit (CBL)



## DESCRIPTION

- The CBL is a 100KW generator powered COTS laundry item configured into a standard ISO container and consists of two industrial 55 pound washers, two industrial 75 pound dryers, and a 30 GPM supply pump that can launder Gortex laminated fabrics such as the Joint Lightweight Integrated Suit Technology (JSLIST).
- Prime Contractor: SFA Inc. Easton MD

## PROGRAM STATUS

- AAO: 94
- Unit Cost: \$131,131.00
- Planned/Fielded: I MEF-21/0 II MEF-21/0  
ES- 2/0 III MEF-18/0 MARFORRES-10/0  
MPF- 16/0
- FY07/08 Procuring 94 CBL
- Fielding Complete: 3<sup>rd</sup> Qtr FY09

## MILESTONE SCHEDULE

Fiscal Year	2007				2008				2009			
Quarter	I	II	III	IV	I	II	III	IV	I	II	III	IV
Obligate Funding		◆										
Production												
Fielding												
IOC						◆						
FOC												◆

# **Engineer Equipment Trailer**



## **PROGRAM STATUS**

- AAO: 420
  - Planned/Fielded:
    - I MEF - 84
    - II MEF - 94
    - III MEF - 59
    - MARFORRES - 73
    - SE - 16
    - MPS - 46
    - MCPPN - 26
    - Albany - 106
  - Fielding Complete: 06/08

## **DESCRIPTION**

- Commercial Tag Along Trailer for transporting the Backhoe Loader (BHL), Light Rough Terrain Forklift (LRTF) and Multi Terrain Loaders (MTL).
  - Contractors: Load King – Elk Point SD

## MILESTONE SCHEDULE

# Tractor, Rubber-tired, Articulated Steering, Multi-purpose (TRAM)



## DESCRIPTION

- John Deere 624K, Diesel-powered, four-wheel drive, rubber-tired, articulated steering tractor, capable of operating in rough terrain.
- Outfitted with a multi-purpose 4-in-1, 2.5 cubic yard bucket and 10,000 lbs forklift attachment.

## PROGRAM STATUS

- AAO: 653
- Planned/Fielded:
  - I MEF - 108
  - II MEF - 105
  - III MEF - 74
  - MARFORRES - 105
  - MPS/MCCP - 72
  - MARCENT - 90
- Contract Award 1<sup>st</sup> Quarter FY07
- Product Qualification testing completed
- LUE conducted Dec 07
- Projected fielding complete: 08/11

- Prime Contractor: John Deere - Moline, IL

## MILESTONE SCHEDULE

Event/Activity	FY06	FY07	FY08	FY09	FY10	FY11										
Quarter	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Validate ROC																
Market Research/RFI		■														
ADM																
Issue RFP			■													
Source Selection			■													
Contract Award (4ea)				■												
POT/LUE					■											
FP/SI						□										
Production/Fielding Decision							△									
Production								■								
Fielding								■								
NET									■							

# All Terrain Crane (ATC) MAC-50



## DESCRIPTION

- Rough terrain, all-wheel drive/steer, self deployable.
- Heavy Lift capable, with optimum lifting capacity of 50-Tons.
- Air transportable (C-5 and C17).
- Diesel powered with four forward and four reverse speed selections.
- Enclosed cab allowing for extended operations in all-weather conditions.
- Equipped with Sling and Tamdom Lock
- Prime Contractor: Terex/DEMAG

## PROGRAM STATUS

- AAO: 137
- Planned/Fielded:
  - I MEF - 22
  - II MEF - 23
  - III MEF - 18
  - MARFORRES - 36
  - MPS/MCCP - 38
- Fielding complete: 08/09

## MILESTONE SCHEDULE

Event/Activity	FY05				FY06				FY07				FY08				FY09			
Quarter	I	II	III	IV																
Issue RFP																				
Program Initiation - ACAT IV (M)	▲																			
Source Selection		■	■																	
Contract Award																				
Aberdeen POT / LUE										■	■									
IP/SI											■									
Production/Fielding Decision												▲								
Production																				
Fielding													■	■						
NET														■						